

$$= F \sum_{k=1}^{N} \int_{0}^{R^{2}(h-2)} \left[\frac{R^{2}(h-2)}{2h^{2}} \right] dz = \frac{P^{2} \pi R^{2}}{2h^{2}} \int_{0}^{h} (h-1)^{2} dz$$

$$= \frac{P \pi R^{2}}{h^{2}} \left[\frac{-(h-2)}{2h^{2}} \right] \int_{0}^{h} = \frac{F \pi R^{2}}{h^{2}} \cdot \frac{h^{2}}{2h^{2}} = \frac{1}{2} \int_{0}^{\pi} \pi R^{2} h^{2}$$

$$= P \int_{0}^{\pi} \left[\frac{R^{2}(h-2)}{2h^{2}} \right] dz = \frac{1}{2} \int_{0}^{\pi} \frac{R^{2}(h-2)^{2}}{2h^{2}} dz$$

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$$= \frac{1}{2} \int_{0}^{\pi} \frac{R^{2}(h-2)^{2}}{2h^{2}} dz + \frac{1}{2} \int_{0}^{\pi} \frac{R$$

